

WHAT IS CLAIMED IS:

1. An optical pickup apparatus comprising:

a light emitting device having at least a first light source for emitting a first laser beam and a second light source for emitting a second laser beam having a wavelength different from that of said first laser beam and in which said first and second light sources are closely arranged;

an optical system formed with an irradiation optical path for guiding said laser beam toward a recording medium and a reflection optical path for guiding a reflected laser beam by said recording medium toward a photodetector; and

a holding member for holding optical parts of said optical system,

wherein on said irradiation optical path near an arranging position of said light emitting device, said optical system includes a first grating for allowing said first laser beam to pass as a 0th order light, diffracting said second laser beam, and generating a primary diffracted light having an optical axis which closely coincides with an optical axis of said first laser beam and a second grating for using the laser beam supplied from said first grating as a main beam and generating sub-beams for generating a tracking error signal according to a three-beam method with respect to said main beam, and

said holding member holds a unit in which said light emitting device and said first and second gratings are integrated.

2. An apparatus according to claim 1, wherein said first and second gratings are formed by a single hologram device.

3. An apparatus according to claim 2, wherein said hologram device is a device in which said first grating is formed on a surface of a plate-shaped substrate and said second grating is formed on another surface of said plate-shaped substrate.

4. An apparatus according to claim 2, wherein said first grating is brazed in said hologram device.

5. An apparatus according to claim 1, wherein an amount of light of said primary diffracted light becomes larger than that of another primary diffracted light having a different polarity in said first grating.

6. An apparatus according to claim 1, wherein a wavelength of said first laser beam is shorter than that of said second laser beam.

7. An optical pickup apparatus comprising:

a light emitting device having at least a first light source for emitting a first laser beam and a second light source for emitting a second laser beam having a wavelength different from that of said first laser beam and in which said first and second light sources are closely arranged;

an optical system formed with an irradiation optical path for guiding said laser beam toward a recording medium and a reflection optical path for guiding a reflected laser beam by said recording medium toward a photodetector; and

a holding member for holding optical parts of said optical system,

wherein on said irradiation optical path near an arranging position of said light emitting device, said optical system includes a brazed hologram device for allowing said first laser beam to pass as a 0th order light, diffracting said second laser beam, and generating a primary diffracted light, as a main beam, having an optical axis which closely coincides with an optical axis of said first laser beam, and

said holding member holds a unit in which said light emitting device and said brazed hologram device are integrated.

8. An apparatus according to claim 7, wherein in said brazed hologram device, a hologram brazed in a saw-tooth shape is formed on a surface of a plate-shaped substrate, and the surface is provided for said unit so as to be directed toward a direction opposite to said light emitting device.

9. An apparatus according to claim 7, wherein said brazed hologram device generates a 0th order light and a secondary diffracted light of said second laser beam as sub-beams for generating a tracking error signal of a three-beam method.

10. An apparatus according to claim 7, wherein said brazed hologram device provides an amount of light of a 0th order light of said second laser beam to closely coincide with an amount of light of a secondary diffracted light whose polarity is the same as that of said primary diffracted light.

11. An apparatus according to claim 7, wherein a wavelength of said first laser beam is shorter than that of said second laser beam.

12. A semiconductor laser unit for an optical pickup apparatus, comprising:

a light emitting device having at least a first light source for emitting a first laser beam and a second light source for emitting a second laser beam having a wavelength different from that of said first laser beam and in which said first and second light sources are closely arranged;

a first grating for allowing said first laser beam to pass as a 0th order light, diffracting said second laser beam, and generating a primary diffracted light having an optical axis which closely coincides with an optical axis of said first laser beam;

a second grating for using the laser beam supplied from said first grating as a main beam and generating sub-beams for generating a tracking error signal of a three-beam method with respect to said main beam; and

a holder for holding said light emitting device and said first and second gratings in an integrated form.

13. A unit according to claim 12, wherein said first and second gratings are formed by a single hologram device.

14. A unit according to claim 13, wherein said hologram device has said first grating formed on a surface of a plate-shaped substrate and said second grating formed on another surface of said plate-shaped substrate.

15. A unit according to claim 13, wherein said first grating is brazed in said hologram device.

16. A unit according to claim 12, wherein an amount of light

of said primary diffracted light becomes larger than that of another primary diffracted light having a different polarity in said first grating.

17. A unit according to claim 12, wherein a wavelength of said first laser beam is shorter than that of said second laser beam.

18. A semiconductor laser unit for an optical pickup apparatus, comprising:

a light emitting device having at least a first light source for emitting a first laser beam and a second light source for emitting a second laser beam having a wavelength different from that of said first laser beam and in which said first and second light sources are closely arranged;

a brazed hologram device for allowing said first laser beam to pass as a 0th order light, diffracting said second laser beam, and generating a primary diffracted light, as a main beam, having an optical axis which closely coincides with an optical axis of said first laser beam; and

a holder for holding said light emitting device and said brazed hologram device in an integrated form.

19. A unit according to claim 18, wherein in said brazed hologram device, a hologram brazed in a saw-tooth shape is formed on a surface of a plate-shaped substrate, and the surface is provided for said unit so as to be directed in an opposite direction to said light emitting device.

20. A unit according to claim 18, wherein said brazed hologram device generates a 0th order light and a secondary

diffracted light of said second laser beam as sub-beams for generating a tracking error signal of a three-beam method.

21. A unit according to claim 18, wherein said brazed hologram device provides an amount of light of a 0th order light of said second laser beam to closely coincide with an amount of light of a secondary diffracted light whose polarity is the same as that of said primary diffracted light.

22. A unit according to claim 18, wherein a wavelength of said first laser beam is shorter than that of said second laser beam.

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